

DEPARTMENT OF EDUCATION-FSA FMS INTEGRATION PARTNER REPORT FUNCTIONAL DESIGN



TRIAL BALANCE RELATIONSHIPS REPORT TO 128 – FMS TO FMSS DATA TRANSFORMATION AND TRANSFER

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		Subject: Trial Balance Relationships Report
		Phase: TO 128 – FMS to FMSS Data Transformation and Transfer
Prepared by: Julio Herrera	Date: March 20, 2003	Version: 5.0

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Document Change Control

Date	Author	Version	Change Reference
02/11/2003	Julio Herrera	1.0	Document Creation
02/28/2003	Julio Herrera	2.0	Updated based on review comments
03/07/2003	Julio Herrera	3.0	Updated based on review comments
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03/20/2003	Julio Herrera	5.0	Updated based on client review

Approval

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Specification

Report Name:	Trial Balance Relationships Report
Functional Design Document ID & Title:	FMS_TRIAL_BALANCE_RELATIONSHIPS _RPT_FD
Application:	FMS Oracle GL Module
Priority:	High
Estimated Production Date:	June 2003
Other Affected Applications:	N/A
Comments:	N/A

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General Requirements

Business Objective:

As part of TO 128 efforts, FMS has been tasked to develop a financial report that displays accounting detail related to 4251XNY, 4253XNY, and 0230XNY funds for a given period.

The report will be used by FSA CFO Accounting Division to identify discrepancies with General Ledger account totals within a given period. The report will identify discrepancies as a result of validations using pre-defined relationship rules. This functionality will enhance the reconciliation efforts for FSA CFO Accounting in regards to specific General Ledger data in FMS.

This report will be a stand alone report for use by FSA CFO Accounting and FSA AD OPS Team. This report is not intended to complement existing reports. The data on the report will be pulled from FMS tables.

Component Description:

This document provides the functionality and the requirements related to the Trial Balance Relationships Report. The FSA CFO Accounting division will have the ability to manually generate the Trial Balance Relationships Report for a specified Fund for a given accounting period (Requirement 4.2.1). The report will contain two major sections: Fund Account Net Activity and Relationship Violations. The report will require two input parameters, Fund and Accounting Period.

The first section will display all fund account net activity for the fund and period specified. The valid fund values are 4251XNY, 4253XNY, and 0230XNY (Requirement 4.2.2 and 4.2.3). The following fields will be displayed on the report:

- Period
- Fund
- Account
- Net Activity
- Relationship Violations

The Net Activity field will show the difference for a particular GL account from the prior accounting period to the current accounting period.

The second section will display any relationship violations and the associated violation description (Requirement 4.2.4). If there are no relationship violations, the section will display “No Relationship Violations”. The Trial Balance Relationships Report will check account relationship rules based on pre-defined relationship rules for each fund (Requirement 4.2.5) and display the amount of discrepancy where the rule violations occurred (Requirement 4.2.6). These relationship rules will be checked using a calculated field to ensure the various equations are correct. Relationship program rules are as follows:

- FFEL program rules valid for fund 4251XNY and 0230XNY
 - Sum total of activity within the given period in account 1010X2 must equal the sum total of activity in account 4902 (Requirement 4.2.7)
 - Sum total of activity within the given period in account 1010X3 must equal the sum total of activity in accounts 4261, 4262, 4263, 4266, and 4972 (Requirement 4.2.8)
 - Sum total of activity within the given period in accounts 4060, 4261, 4262, 4263, and 4266 must equal 0 (Requirement 4.2.9)
 - Sum total of activity within the given period in accounts 4510 and 4590 must equal 0 (Requirement 4.2.10)
 - Sum total of activity within the given period in accounts 4610, 4901, and 4902 must equal 0 (Requirement 4.2.11)
 - Sum total of activity within the given period in accounts 2110, 2120, [2180](#), 1010X2, and 1010X3 must equal 0 (Requirement 4.2.12)

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- Sum total of activity within the given period in accounts 2110 and 2120 must equal 4901 (Requirement 4.2.13)
- DL program rules valid for fund 4253XNY
 - Sum total of activity within the given period in account 1010X2 must equal sum total of activity in accounts 4802 and 4902 (Requirement 4.2.14)
 - Sum total of activity within the given period in account 1010X3 must equal sum total of activity in accounts 4261, 4262, 4263, 4266, and 4972 (Requirement 4.2.15)
 - Sum total of activity within the given period in accounts 4060, 4261, 4262, 4263, and 4266 must equal 0 (Requirement 4.2.16)
 - Sum total of activity within the given period in accounts 4510 and 4590 must equal 0 (Requirement 4.2.17)
 - Sum total of activity within the given period in accounts 2110 and 2120 must equal Sum total of activity in accounts 4801 and 4901 (Requirement 4.2.18)
 - Sum total of activity within the given period in accounts 4610, 4801, 4802, 4901, and 4902 must equal 0 (Requirement 4.2.19)

Accounting personnel will be able to manually generate the report on demand. If the report finds no applicable data for the given parameter combination, “No Data Found” will be displayed in the body of the report.

Component Risks:

- Report may take a long time to run due to report computations and rules that are hard coded into the report.
- Adding additional account relationship rules post Functional Design may have development impacts, and post-go-live would require a CR.
- Report depends on all programs that populate or modify data in gl_balances, gl_code_combinations, or gl_sets_of_books.

Authorization:

Manually generated in FMS. [The reports will be registered under the SFA CFO GL SuperUser and SFA GL Inquiry responsibilities in FMS.](#)

Scheduling Requirements:

The report will be manually generated on an as needed basis.

Report Characteristics:

Legacy Report Name:	N/A
Distribution:	FSA CFO Accounting, FSA AD OPS Team
Summary Level:	Summary
Output:	Online/Print
Volume:	

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Frequency:	As Needed
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Development Complexity:

High

Assumptions:

- The report will be generated after the journal imports for the requested funds have been transferred from AP/AR to GL.
- The relationship rules provided by FSA CFO are correct.
- The relationship violation validation only applies to the pre-defined relationship rules.

Design

Report Layout:

**U.S. Department of Education
Trial Balance Relationships Snapshot
Period: Feb 03**

Fund: 4253XNY

<u>Account</u>	<u>Net Activity</u>
1010X2	1000.00
4802	600.00
4902	350.00
4610	-850.00

Relationship Violations: DL

- 1 Sum total of activity in account 1010X2 must equal sum total of activity in accounts 4802 and 4902
- 2 Sum total of activity in accounts 4610, 4801, 4802, 4901, and 4902 must equal 0

Discrepancy Amount

50.00
100.00

Detailed Description of New/Changes to Existing Report:

N/A

Existing/Original Report Name:

N/A

Field Information:

Field Name	Field Heading	Table Name / Column Name	Field Type	Display Characteristics	Field Length	Comments (Functional Notes / Calculations / Validations)
Period	Period	gl_balances/period_name	Varchar2		4	Month and Year
Fund	Fund	gl_code_combinations/segment 1	Varchar2		7	4251XNY, 0230XNY, and 4253XNY
Account	Account	gl_code_combinations/segment 4	Varchar2		6	
Net Activity	Net Activity	gl_balances/period_net_dr and period_net_cr	Number		22	GL Account Balance
Relationship Violations	Relationship Violations	N/A	Varchar2		5	Contains fund type (FFEL or GA)
Description	Relationship Violations	N/A	Varchar2		255	Text violation description
Discrep. Amt	Relationship Violations	N/A	Varchar2		10	Calculated field dependent upon rule violated

Input Parameters:

Parameter Name	Datatype	Default Value	Required (Y/N)	Value Set	Comments
Period	VARCHAR2		Y	Use one of the standard Oracle GL Period value sets (ex. GL_SRS_ALL_PERIODS)	User will enter the desired Period for summary trial balance.
Fund	VARCHAR2		Y	A custom value set will be created with Funds 4251XNY, 0230XNY, and 4253XNY as possible values.	User will enter the desired Fund for summary trial balance.

Database Objects:

Database Object Name	Object Type	Oracle Application	Comments
N/A			See Technical Design

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Main Title:

U.S. Department of Education
Trial Balance Relationships Report

Subtitle:

Period: [MMM/YY]

Breaking:

N/A

Totals/Subtotals:

N/A

Sorting:

GL Account - ascending

Dependencies

Dependencies on Other RICE Components:

N/A

Dependencies on Other Business Components:

Report is dependant on successful processing of transactions into FMS system.

Design Constraints:

Period and Fund are required input parameters.

Performance Considerations:

N/A

Implementation Considerations:

N/A

Other Dependencies/Special Concerns:

N/A

Error Handling

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Potential Errors	Possible Reasons	Solution Strategy
Database goes down while running reports.	System failure	Contact FMS Operations. Once the database is restored, the run report.
Report does not appear in list of Requests to run.	Report not registered properly	Register Reports correctly.
No Data Found	Wrong Fund or Month	Verify Fund and Month.

Testing Requirements

Test Condition	Expected Results
Generate report using Period and Fund as parameter.	Report generated for selected Period and Fund. All are fields populated with correct accounting information.
Generate report where no data found.	“No Data Found” should be displayed in body.

Issues and Additional Considerations

The following Issues were defined during Functional Design:

Issue	Raised By / Date Needed	Resolution/Answer	Resolved By / Date Completed
Determine which responsibility will run report.	Julio Herrera/ 2/11/03	Need to be resolved by FSA and FMS Operations.	Julio Herrera/ 3/7/03